



300928

<b>POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT</b> <b>PART 1 - SITE INFORMATION AND ASSESSMENT</b>		<b>I. IDENTIFICATION</b> 01 STATE <b>IL</b> 02 SITE NUMBER <b>D 981194699</b>	
<b>II. SITE NAME AND LOCATION</b>			
01 SITE NAME (Legal, common, or descriptive name of site) <b>Chicago Department of Streets and Sanitation</b>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <b>103<sup>rd</sup> Street and Doty Avenue</b>	
03 CITY <b>Chicago</b>	04 STATE <b>IL</b>	05 ZIP CODE <b>60628</b>	06 COUNTY <b>Cook</b>
09 COORDINATES LATITUDE <b>41° 42' 30" 0</b>		07 COUNTY CODE <b>031</b>	
LONGITUDE <b>087° 35' 00" 0</b>		08 CONG DIST <b>02</b>	
10 DIRECTIONS TO SITE (Starting from nearest public road) <b>I-94 Calumet Expressway South. Exit on 103<sup>rd</sup> Street. East on 103<sup>rd</sup> Street to Doty Avenue. Site is located on the South Side of 103<sup>rd</sup> Street.</b>			
<b>III. RESPONSIBLE PARTIES</b>			
01 OWNER (if known) <b>Chicago Regional Port District</b>		02 STREET (Business, mailing, residential) <b>12800 Butler Drive</b>	
03 CITY <b>Chicago</b>	04 STATE <b>IL</b>	05 ZIP CODE <b>60633</b>	06 TELEPHONE NUMBER <b>312 646-4400</b>
07 OPERATOR (if known and different from owner) <b>City of Chicago</b>		08 STREET (Business, mailing, residential) <b>121 N. LaSalle Street</b>	
09 CITY <b>Chicago</b>	10 STATE <b>IL</b>	11 ZIP CODE <b>60601</b>	12 TELEPHONE NUMBER <b>312 744-5000</b>
13 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input checked="" type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> G. UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: ____/____/____ MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ____/____/____ MONTH DAY YEAR <input checked="" type="checkbox"/> C. NONE			
<b>IV. CHARACTERIZATION OF POTENTIAL HAZARD</b>			
01 ON SITE INSPECTION <input type="checkbox"/> YES DATE ____/____/____ MONTH DAY YEAR <input checked="" type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____	
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION <b>1956   1978</b> BEGINNING YEAR    ENDING YEAR <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED <b>Heavy Metals (Toxic/Persistent) Sludges (Toxic/Persistent)</b>			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION <b>Groundwater (Environment) Surface water (Environment)</b>			
<b>V. PRIORITY ASSESSMENT</b>			
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
<b>VI. INFORMATION AVAILABLE FROM</b>			
01 CONTACT <b>Cliff Gould</b>		02 OF (Agency/Organization) <b>IEPA / DLPC</b>	
04 PERSON RESPONSIBLE FOR ASSESSMENT <b>Kelly Walker</b>		05 AGENCY <b>U.S. EPA</b>	06 ORGANIZATION <b>Ecology and Environment</b>
		07 TELEPHONE NUMBER <b>312 663-9415</b>	03 TELEPHONE NUMBER <b>312 345-9180</b>
		08 DATE <b>01, 08, 86</b> MONTH DAY YEAR	



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL 981194699

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☒ A. SOLID  
☐ B. POWDER, FINES  
☐ C. SLUDGE  
☐ D. OTHER (Specify)  
☐ E. SLURRY  
☐ F. LIQUID  
☐ G. GAS

02 WASTE QUANTITY AT SITE

(Measures of waste quantities must be independent)

TONS unknown

CUBIC YARDS

NO. OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply)

- ☒ A. TOXIC  
☐ B. CORROSIVE  
☐ C. RADIOACTIVE  
☒ D. PERSISTENT  
☐ E. SOLUBLE  
☐ F. INFECTIOUS  
☐ G. FLAMMABLE  
☐ H. IGNITABLE  
☐ I. HIGHLY VOLATILE  
☐ J. EXPLOSIVE  
☐ K. REACTIVE  
☐ L. INCOMPATIBLE  
☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	56,743	tons	amount accepted in 1983.
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	unknown	unknown	detected in 1985 sludge analysis.

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
* MES	Cadmium	7440-43-9	landfill	146	mg/Kg
* MES	Copper	7440-50-8	landfill	1220	mg/Kg
* MES	Chromium	7440-47-3	landfill	1720	mg/Kg
* MES	Nickel	7440-02-0	landfill	273	mg/Kg
* MES	Lead	7439-92-1	landfill	693	mg/Kg
* MES	Mercury	999	landfill	2.1	mg/Kg
* Analysis of sludge shipped to the 103rd and Doty Landfill closure site during July, August, September, 1985.					
• MES	Cadmium	7440-43-9	landfill	10	ug/L
• MES	Copper	7440-50-8	landfill	20	ug/L
• MES	Lead	7439-92-1	landfill	30	ug/L
• MES	Nickel	7440-02-0	landfill	100	ug/L
• Analysis of monitoring wells sampled on April 11 and 18, 1985.					

V. FEEDSTOCKS (See Appendix for CAS Numbers)

N/A

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See attached Source Sheets.



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE IL 02 SITE NUMBER D981194699

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 0

02 ☒ OBSERVED (DATE: 4/85)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Sampling of monitoring wells show contamination with heavy metals, however, there are no private groundwater wells within the 3-mile radius.

01 ☒ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 0

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Sampling of monitoring wells show contamination with heavy metals. Groundwater is likely to discharge to nearby wetland and Calumet River. Lake Michigan intakes > 3 miles from site.

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: 1

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A

01 ☒ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: 0

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Unstable containment of waste has been detected from sampling and site accessibility is unknown, therefore a potential exists for direct contact. However, the population in 1-mile radius is zero.

01 ☒ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: 37.19

02 ☒ OBSERVED (DATE: 1985)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

A 1985 sludge analysis detected heavy metals, therefore a potential exists for soil contamination.

01 ☐ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

See Sections A and B above.

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: 1

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

02 ☐ OBSERVED (DATE: \_\_\_\_\_)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

N/A See Sections A, B, E above.



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
IL 8981 194699

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED

monitoring wells and sludge are contaminated with heavy metals, therefore a potential exists for flora to be affected.

01 ☒ K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED

monitoring wells and sludge are contaminated with heavy metals, therefore a potential exists for fauna to be affected.

01 ☒ L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED

monitoring wells and sludge are contaminated with heavy metals, which are known to bioaccumulate, however primary consumers are unlikely to exist in this area.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES

(Spills/runoff/standing liquids/leaking drums)

02 ☒ OBSERVED (DATE: 1985) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 0

04 NARRATIVE DESCRIPTION

monitoring wells sampled in April of 1985 show contamination with heavy metals, therefore wastes are not adequately contained.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

None documented.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

None documented.

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

None documented.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 0

IV. COMMENTS

This area is where the Lake Calumet harbor was filled in. The location of the site is 107<sup>th</sup> St. South to 111<sup>th</sup> St., between the Calumet Expressway and Stony Ave.

V. SOURCES OF INFORMATION (Cite specific references, e. g., state files, sample analysis, reports)

See attached source sheets.



## PA DOCUMENTATION SHEET

 SITE Chicago Dept. of Streets + Sanitation  
 IDENTIFICATION NUMBER IL 8981 194699

SOURCE NUMBER	DESCRIPTION OF SOURCE
1A, 1B, 1C, 1D	1A) QUAD NAME <u>Lake Calumet, IL.</u> 1B) QUAD NAME <u>Blue Island, IL.</u> SIZE: <u>7.5</u> of 15      SIZE: <u>7.5</u> of 15 YEAR <u>1973</u> YEAR <u>1973</u>  1C) QUAD NAME _____ 1D) QUAD NAME _____ SIZE: 7.5 of 15      SIZE: 7.5 of 15 YEAR _____      YEAR _____
2.	Phone call by Kelly Walker, E&E, to Jim Kero, City of Chicago Dept. of Streets and Sanitation, 1/6/86, (312) 744-4580.
3.	Letter to Kenneth P. Beechey, IEPA, from Charles T. Griglauskis, Manager of Environment Affairs, Waste Management, Inc., December 15, 1982.
4.	USGS Lake Calumet, IL. Quadrangle showing location of the site, including dimensions and site location description.
5.	Letter to Mark Haney, IEPA, from Cecil We-Hing, Director of Research and Development, Metropolitan Sanitary District of Greater Chicago, June 6, 1985.

## PA DOCUMENTATION SHEET

 SITE Chicago Dept. of Streets & Sanitation  
 IDENTIFICATION NUMBER ILD 981 194699

SOURCE NUMBER	DESCRIPTION OF SOURCE
6.	Letter to Mark Haney, IEPA, from Cecil Lue-Hing, Director of Research and Development, Metropolitan Sanitary District of Greater Chicago, October 8, 1985.
7.	Letter to Thomas McSwiggin, IEPA, from John M. Ryan, Chief of Maintenance and Operations, Metropolitan Sanitary District of Greater Chicago, January 31, 1984.
8.	Illinois Travel and Leisure Guide.
9.	Phone call by Sue Ryan, E&E, to Stoney Monistere, Calumet City Water Superintendent, June 20, 1985, (312) 891-8155.
10.	Phone call by Sue Ryan, E&E, to Mr. Adduci, City of Chicago Water Dept., Nov. 27, 1985, (312) 744-7001.
11.	Phone call by Sue Ryan, E&E, to Ralph Falkerfall, City of Chicago Water Dept., 7/16/84, (312) 744-7001.

## PA DOCUMENTATION SHEET

SITE Chicago Dept. of Streets + Sanitation  
 IDENTIFICATION NUMBER ICD 981 194699

SOURCE NUMBER	DESCRIPTION OF SOURCE
12.	Phone call by Ruth Ann Jaquette, E&E, to Jerry Larsen, Chief Filtration Engineer, Chicago Water Dept., 12/23/85, (312) 744-3696.
13.	Endangered Species List, U.S. Fish and Wildlife Service, Region IV Great Lakes District.
14.	Letter to Mike McCarin and Randal Ekstrom, E&E, from U.S. Fish and Wildlife Service, Rock Island Field Office, April 30, 1985.
15.	Population computation for 3-mile Radius.
16.	Environmental Assessment SCA Chemical Services Company Hazardous Waste Management Facility, Chicago/Lake Calumet, November 11, 1980.
	END





## ecology and environment, inc.

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International Specialists in the Environment

### EXECUTIVE SUMMARY

#### CHICAGO DEPARTMENT OF STREETS AND SANITATION

103RD STREET AND DOTY AVENUE

CHICAGO, ILLINOIS 60628

Chicago Department of Streets and Sanitation is a landfill which operated from approximately 1956 to 1978. The location of the site is 107th Street South to 111th Street, between the Calumet Expressway and Stony Avenue. This site is currently in the final closure process and has been covered with clay, other fill and possibly sludges. According to the Department of Streets and Sanitation, this area was where the Lake Calumet Harbor was filled in with general municipal refuse.

Monitoring wells G101, G102, G103 and G104 at this facility were sampled on April 11 and 18, 1985. In addition, a mean analysis was run on sludge shipped to this site during July, August and September, 1985. Both analyses of the wells and the sludge indicate contamination with heavy metals.

Groundwater at the site has been shown to be contaminated; however, this would not have an effect on the population, because there are no private or municipal wells within the three-mile radius. Potable water is received from Lake Michigan with intakes greater than three miles from the site.

Based on available sampling data for this site showing contamination with heavy metals and the potential for the environment to be affected, a medium priority for F.I.T. activities is recommended.

69D:4F

5E0301 - A0101  
EXECUTIVE SUMMARY

High  
YEW 1/24/89

Curie Park #408 is operated by the Chicago Park District and contains facilities as per the attached Park District inventory. This park was sampled during the summer of 1984 by a citizens group, the Coalition to Ban Leaded Gasoline. Sample analysis by the Chicago Board of Health showed elevated levels of lead in the surface soil.

There has been no known waste disposal in this park area which would explain this, and contamination by aerial sources must be suspected.

A high priority has been assigned due to the large potential user population exposed to elevated lead concentrations. The sampling techniques used by the Coalition to Ban Leaded Gasoline were questionable at best, and sampling by qualified technicians and subsequent analyses should take place at the first opportunity.

RL:tk/8

Attachment